

**ABSTRACT**

Methods, apparatus, and systems for providing feedback to a subject in connection with a performance of a task, such as a movement task. The movement task may involve an operation or movement of an object by the subject, such as a body part or a sporting implement. During the movement task, the object has an expected motion path that is associated with one or more target areas. Behavior control feedback may be provided to the subject based on one or more of a position of the object, a motion of the object and an orientation of the object relative to one or more target areas as the subject performs the movement task. One example of an apparatus for providing behavior control feedback includes one or more radiation sources, one or more radiation detectors, and one or more indicators, any of which may be coupled to or otherwise integrated with the object. The object is operated to perform the movement task such that radiation emitted from a source of the apparatus impinges on one or more target areas covered with one or more reflectors. A radiation detector of the apparatus detects radiation that is reflected from the target areas, and an indicator coupled to the detector provides the behavior control feedback to the subject based on the detected radiation.